

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/079697 A1

(51) International Patent Classification⁷: **A61C 8/00**

(21) International Application Number:
PCT/SE2005/000056

(22) International Filing Date: 20 January 2005 (20.01.2005)

(25) Filing Language: Swedish

(26) Publication Language: English

(30) Priority Data:
0400230-9 2 February 2004 (02.02.2004) SE

(71) Applicant (for all designated States except US): **BRÅNE-
MARK INTEGRATION AB** [SE/SE]; ., Lilla Bommen 1,
S-411 04 GÖTEBORG (SE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ÖHRNELL, Lars-
Olof** [SE/SE]; ., Brödragatan 78, S-412 74 GÖTEBORG
(SE). **BRÅNEMARK, Rickard** [SE/SE]; ., Långgatan 9,
S-431 38 MÖLNDAL (SE). **MORENIUS, Carl** [SE/SE]; .,
Ridlärargatan 8D, S-431 62 MÖLNDAL (SE). **NILSSON,**

Peter [SE/SE]; ., Övre Starrbäck, S-566 92 HABO (SE).
SVENSSON, Thomas [SE/SE]; ., Ellösgatan 19, S-416 74
GÖTEBORG (SE).

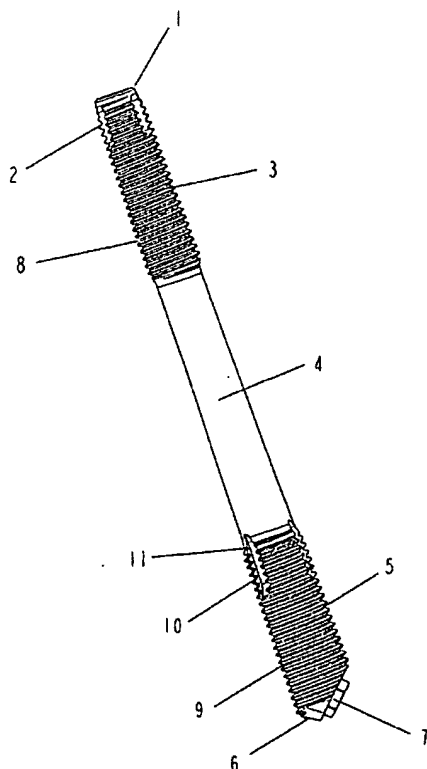
(74) Agents: **LÖFGREN, Håkan** et al.; GROTH & Co. KB,
Box 6107, S-102 32 Stockholm (SE).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: ANCHORING ELEMENT, DENTAL ANCHORING MEMBER, AND DENTAL ANCHORING UNIT



(57) Abstract: An anchoring element and an dental anchoring mem-
ber for fixation in a first bone tissue and in a second bone tissue, each
comprising an apex (1, 12) and a first fixation portion (3, 13) dis-
posed at the apex (1, 12), both adapted for fixation in the first bone
tissue, a basis (6, 16), and a second fixation portion (5, 15) disposed
at said basis (6, 16) and adapted for fixation in the second bone tissue,
and an intermediate portion (4, 14). The second fixation portion (5) of the
anchoring element has the form of a truncated cone while the second
fixation portion (15) of the dental anchoring member is threaded
and comprises at least one groove forming cutting unit transverse to
the threads and disposed at the intermediate portion (14). A dental an-
choring unit for fixation in the os zygomaticum, the dental anchoring
unit being elongated and comprising an apex (24) and a fixation por-
tion (25) disposed at the apex (24), both adapted for fixation in the os
zygomaticum, a basis (26), and an end portion (27) disposed between
the fixation portion (25) and said basis (26). The fixation portion (25)
has the form of a truncated cone having the smaller basis adjacent to
the apex (24) and the larger basis adjacent to the end portion (27).

WO 2005/079697 A1



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.